CALFED
BAY-DELTA
PROGRAM

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Notice of Public Meeting
CALFED Bay-Delta Science Program Workshop
Planning for Hydrologic Change in California: United States Geological Survey Scenarios for Delta Water Resources through the 21st Century

Meeting Date and Location: **February 6, 2003, 8:00am – 5:00pm**
Sheraton Grand Sacramento Hotel, Camellia Room
1230 J Street, Sacramento, CA 95814

Purpose of Public Meeting:
The workshop will provide a forum for information exchange between scientists and stakeholders sharing a common interest in future changes in California's hydrology and the impacts of those changes on CALFED's objectives related to water quality, levee integrity, and ecosystem restoration in the Sacramento-San Joaquin River Delta. The workshop is a step towards designing a proposed new collaborative research initiative between the U.S. Geological Survey (USGS) and CALFED. The initiative aims to develop scenarios of hydrologic changes driven by potential changes in the climate system, watershed hydrology, sea level, and construction of new within-Delta reservoirs, conveyance facilities, and habitats. The first objective of the workshop is for USGS scientists to describe a general framework for scenario building designed to anticipate responses to prescribed scenarios as changes in: seasonal rainfall and runoff, flood frequency, floodplain hydrology, salinity and water movements in the river-Delta-Bay system, water temperature, sediment loadings and associated changes in Delta-Suisun Bay geomorphology, habitat quality, populations of species of special concern, and fate and effects of contaminants. The second objective is for USGS scientists to solicit feedback from interested parties to (a) assure that proposed new studies complement other agency efforts and ongoing/planned programs to anticipate ecosystem responses to hydrologic change, and (b) assure that specific scenarios of climate, sea level rise, and Delta facilities will address high-priority informational needs of a broad range of stakeholder groups.

In the morning session, USGS scientists will present overviews of approaches for anticipating interconnected changes in climate, sea level, land use, hydrology, water quality, hydrodynamics, geomorphology, habitat quality, and population biology. In the afternoon session, members of an invited panel familiar with climate change, water policy, and Delta resource issues will provide information and guidance to the USGS team. Panel-led discussions will identify specific scenarios having high priority and guide design a research program having greatest value to water-resources managers, planners, and policy makers. All sessions of the meeting are open for public observation and members of the public will be given an opportunity to ask questions and provide comments.

Background:
With support from the USGS Place-Base Program, a team of scientists (representing disciplines of climatology, hydrology, sediment dynamics, contaminants, hydrodynamics, habitat functions, biogeochemistry, population biology) has produced a general plan for developing scenarios of response to changes in the forces that influence water supply and quality in the Bay-Delta-river system. Now, this team is asking for guidance to refine this general plan into a coherent and specific program of scenario building. This workshop is an important step towards designing a detailed workplan that produces scenarios of greatest value to water managers. USGS aims to identify and answer a core list of management questions that panelists/stakeholders deem crucial and believe require further study through applications of integrated science that links models with existing and new data.

The goal of this meeting is to invite expert feedback in design of a USGS-CALFED research initiative to develop scenarios of potential change to anticipate and plan for future changes in California water supply and its impact on CALFED's management goals. A written summary will be available to workshop participants and the general public upon request.

For More Information:
- Registration for the event is not required. For more information, please contact Kristen Honey at (510) 622-5686 or kh@rb2.swrcb.ca.gov.
- The workshop will be recorded. Interested parties not able to attend the workshop should contact Kristen Honey after February 27, 2003, for meeting minutes and/or further information.
- If you need reasonable accommodation due to a disability, please contact Pauline Nevins, CALFED Bay-Delta Authority Science Program at (916) 657-2666, TDD (800) 735-2929.

AGENDA

8:00 Introductions, Meeting Purpose – Jim Cloern, USGS
8:10 CALFED Science-Program Perspective – Sam Luoma, CALFED Lead Scientist

Forces of Hydrologic Change in the 21st Century

8:20 How/Why might the climate system & sea level change? – Dan Cayan, USGS and Scripps
8:40 How/Why might the Delta physical system change? – Don Kurosaka, CA DWR

Anticipating Responses in the Watershed-River-Delta-Bay System

9:00 A Modeling-Based Framework – Jim Cloern
9:10 Responses I: Hydrology, Hydrodynamics, Water Quality – Noah Knowles, USGS

9:40 BREAK

10:00 Responses II: Sediments, Geomorphology, Habitats – Dave Schoellhamer, USGS
10:30 Responses III: Species of Concern – Jan Thompson & Larry Brown, USGS
11:00 Project Coordination and Integration – Jim Cloern

11:10 Public Comments and Questions

12:10 LUNCH

1:20 **Feedback and Guidance from Agencies and Stakeholder Representatives**

Facilitator – Dan Cayan Panelists:

Maury Roos – Chief Hydrologist (part time), CA Department of Water Resources (DWR)
Chet Bowling – CVP Operations, US Bureau of Reclamation
Gwen Knittweiss – North Delta Programs, Bay-Delta Office, CA DWR
Sergio Guillen or Douglas Osugi - CA DWR Executive Office/Division of Planning and Local Assistance
Diana Jacobs – Deputy Director Science Advisor, CA Department of Fish and Game
Rebecca Shaw - Director of Conservation Science, The Nature Conservancy
Chuching Wang (or other representative) – Metropolitan Water District
Richard Denton (or other representative)– Acting Director of Planning, Contra Costa Water District

4:00 BREAK

4:20 **Breakout Session: Open Discussions With USGS Scientists**

Responses I: Hydrology, Hydrodynamics, Water Quality – Noah Knowles, Mike Dettinger, Dan Cayan, David Peterson, Richard Smith, Nancy Monsen, Lisa Lucas

Responses II: Sediments, Geomorphology, Habitats – Dave Schoellhamer, Bruce Jaffe, Scott Wright, Judy Drexler, Neil Ganju

Responses III: Species of Concern – Jan Thompson, Larry Brown, Robin Stewart, Jim Cloern